AMENDMENTS TO THE CLAIMS

Please cancel Claims 7-10; and amend Claims 1 and 5 as follows.

LISTING OF CLAIMS

1. (currently amended) A heat control system comprising

a heat generator in which heat is generated during operation and a temperature is ~~necessarily~~ maintained in a predetermined range,

a vapor compression type refrigerator having a compressor, a radiator, an evaporator and a pressure reducing means to transfer heat from a lower temperature side to a higher temperature side,

a heat exchanger for exchanging heat between refrigerant discharged from the compressor and prior to being fed into the radiator and medium for exchanging heat with the heat generator, and

a bypass ~~for guiding~~ connected between the outlet of the radiator and the outlet of the compressor to cause the refrigerant prior to being fed into the evaporator to flow serially through the heat exchanger and the radiator while detouring the evaporator and the compressor, wherein

the heat control system ~~operates~~ includes means for operating in a heating mode for heating the medium with the high-temperature refrigerant discharged from the compressor, and a heat dissipation mode for cooling the medium with the refrigerant discharged from the compressor and dissipating heat absorbed from the medium via the radiator, and

during the heat dissipation mode, at least a part of the refrigerant flowing out from the radiator is made to pass through the bypass.

2. (original) A heat control system as defined by claim 1, wherein the bypass mainly guides a liquid-phase component of the refrigerant prior to being fed into the evaporator to the heat exchanger.

3. (original) A heat control system as defined by claim 1, wherein the bypass guides the refrigerant discharged from the radiator to the heat exchanger prior to being decompressed by the pressure reducing means.

4. (original) A heat control system as defined by claim 1, wherein the system further comprises means for controlling the heat exchange between the medium and the refrigerant in the heat exchanger.

5. (currently amended) [[a]] A heat control system as defined by claim 4, wherein the means for controlling the heat exchange operates in the heating mode when the temperature of the heat generator is lower than a first predetermined temperature, operates in the heat dissipation mode when the temperature of the heat generator is a second predetermined temperature above the first predetermined temperature or higher, and operates in a normal mode when the temperature of the heat generator is within a range from the first predetermined temperature to the second predetermined temperature, in which the heat exchange between the medium and the refrigerant is made to stop.

6. (original) A heat control system as defined by claim 1, wherein the heat generator is a heat engine.

7.-10. (cancelled)